

IN THE CLAIMS

This listing of claims will replace the prior versions and listings of claims in the application.

1. (Original) An optical measurement system comprising a plurality of light irradiation portions, light from said light irradiation portions being irradiated onto a body to be inspected; and a plurality of detecting portions for detecting light from said body to be inspected, which further comprises:

a display portion for displaying box-shaped pictures for indicating positions of said irradiation positions or said detecting portions;

a display portion for displaying box-shaped pictures for indicating measurement positions located between said irradiation positions and said detecting portions; and

a function to detect that either of said irradiation position or said detecting portion does not have a function of irradiation or detection and to change the box-shaped picture indicating one of said measurement positions corresponding to said irradiation position and said detecting position.

2. (Original) An optical measurement method comprising:  
a process for indicating an irradiation position and a  
light detecting position;

a process for indicating a measurement position and a  
states of allocating number to said measurement position; and  
a process for disposing said processes in a screen of a  
display portion.

3. (Currently Amended) An optical measurement system  
~~comprising on a screen:~~

~~a specifying portion for specifying a selected mode;~~  
~~a display portion means~~ for displaying a number of  
measurement points; ~~a display portion~~  
means for indicating a light irradiation position and a  
light detecting position;

~~a measurement position display portion composed of~~  
~~portions~~ means for displaying a measurement position and a  
~~states~~ state of allocating a number to said measurement  
position;

~~a measurement display portion means~~ for displaying measuring time sequence data;

~~a portion means~~ for setting a condition of acquiring data;

~~a portion means~~ for displaying a status of acquiring said data;

~~an instruction portion means~~ for instructing control of measurement; and

~~a mark instruction portion means~~ for marking a mark at a position on ~~said measurement instruction portion~~ measuring time sequence data.

4. (Currently Amended) An optical measurement system according to claim 3, wherein said ~~portion means~~ for setting a condition of acquiring data comprises ~~a portion means~~ for specifying and displaying a time interval of acquiring data by a light signal from a body to be inspected; ~~a display portion means~~ for indicating a number of ~~for~~ acquiring said data; and ~~a display portion means~~ for indicating an elapsing time of measuring said data.

5. (Currently Amended) An optical measurement system according to claim 3, wherein said ~~instruction portion means~~ means for instructing control of measurement comprises ~~a portion means~~ means for instructing initiating of measurement; ~~a portion means~~ means for instructing completing of acquiring said data; and ~~a portion means~~ means for instructing completing of measurement inspection.

6. (Currently Amended) An optical measurement system according to claim 3, wherein said measurement time sequence data display portion is displayed largely and arranged so as to be ~~not overlapped with overlap~~ overlap said measurement position display ~~portion~~, said ~~portion for setting a condition of acquiring data, said portion for displaying display of a status of acquiring said data, said instruction portion for instructing control of measurement and said mark instruction portion for marking a mark at a position on said measurement instruction portion.~~

7. (Currently Amended) An optical measurement system comprising:

~~an instructing portion means~~ for specifying a selected mode;

~~a display portion means~~ for displaying a number of measurement points;

~~a display portion means~~ for indicating a light irradiation position and a light detecting position;

~~a measurement position display portion composed of portions means~~ for displaying a measurement position and a ~~states~~ state of allocating a number to said measurement position; and

~~a display portion means~~ for indicating a period during adjusting gain.

8. (Currently Amended) An optical measurement system comprising ~~on a screen~~:

~~an instructing portion means~~ for specifying a selected mode;

~~a display portion means~~ for displaying a number of measurement points;

~~a display portion means~~ for indicating a light irradiation position and a light detecting position;

~~a measurement position display portion composed of~~  
~~portions means~~ for displaying a measurement position and a  
~~states state~~ of allocating a number to said measurement  
position; and

means for displaying an abnormality displaying portion.

9. (Currently Amended) An optical measurement system according to claim 8, wherein said means for displaying an abnormality displaying portion comprises ~~an instruction portion for completing~~ means for instructing completion of an operation in progress under progressing; ~~an instruction portion means~~ for instructing gain adjustment again; and ~~an instruction portion means~~ for instructing to continue the operation by neglecting occurrence of ~~an the~~ abnormality.

10. (Canceled).

11. (Currently Amended) An optical measurement system comprising:

~~a specifying portion means~~ for specifying a selected mode;

~~a display portion means~~ for displaying a number of measuring times of measurement points;

~~a display portion means~~ for indicating a light irradiation position and a light detecting position;

~~a measurement position display portion composed of portions means~~ for displaying a measurement position and a ~~states~~ state of allocating a number to said measurement position;

~~a measurement display portion means~~ for displaying measuring time sequence data; ~~a portion~~

means for setting a condition of acquiring data;

~~a portion means~~ for displaying a status of acquiring said data;

~~an instruction portion means~~ for instructing control of measurement;

~~a mark instruction portion means~~ for marking a mark at a position on ~~said measurement instruction portion~~ measuring time sequence data; and

means for providing a tentative measurement instruction display portion by actual signals.

12. (Currently Amended) An optical measurement system according to claim 11, wherein said means for providing a tentative measurement instruction display portion comprises at least ~~an instruction portion~~ means for instructing a magnification of a graph.

13. (Currently Amended) An optical measurement system comprising:

~~a portion~~ means for setting a condition of acquiring data;

~~a portion~~ means for displaying a status of acquiring said data;

~~an instruction portion~~ means for instructing control of measurement;

~~a mark instruction portion~~ means for marking a mark at a position on said on an instruction control of measurement instruction portion; and

~~a display~~ means for displaying a condition input portion.

14. (Currently Amended) An optical measurement system according to claim 13, wherein said ~~display~~ means for



displaying a condition input ~~portion~~ comprises a ~~setting~~  
~~portion~~ means for setting a display magnification and a  
display time.

15. (Canceled)

16. (Previously Presented) An optical measurement system  
comprising functions of:

performing an initial display for selectively instructing  
anyone of selection of optical measurement, analysis of said  
optical measurement result and completion of a program;

inputting items of condition including a measurement  
mode;

displaying a state expressing relationship among light  
irradiation positions and light detection positions and  
measurement positions so as to meet said mode;

instructing to form a file for storing said optical  
measurement result; instructing a measurement condition to  
detect light signals from the inside of a body to be inspected  
which is irradiated by a multi-wavelength multi-channel; and

displaying said signals for each channel detected  
according to said instructing results.

17. (Canceled).

18. (Canceled).

19. (Canceled).

20. (New) An optical measurement according to claim 3,  
further comprising means for specifying a selected mode.